State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-70

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

MACK TRUCKS, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1997 model-year Mack Truck, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

Engine Family	Engine <u>Liters</u>	Displacement (Cubic Inches)	Exhaust Emission Control Systems and Special Features
VMK728EGDARA	11.9	(728)	Turbocharger Charge Air Cooler Smoke Puff Limiter

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

Hydrocarbons	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour, except that compliance with the carbon monoxide exhaust emission standard has been demonstrated pursuant to Title 40, Code of Federal Regulations, Part 86, Subpart A, Section 86.091- 23(c)(2)(i):

Engine <u>Family</u>	<u>Hydrocarbons</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
VMK728EGDARA	0.01	4.1	0.09

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 15 day of January 1997.

R. B. Summerfield, Grief

Mobile Source Operations Division

EM ROLLINST

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74.4 4

> 178.2 2/93

> > 1190@1020

238.7

139501020 9756 1264

702.2 0.00/ 23.7

147.4

153.9

2500/200

Em7-250

167.9

275 @ 1750

EM7-275 £7-250

: ;

92.8

Emission Cantrol Device Per SAE 11930

A15

LARGE ENGINE MODEL SUMMARY

ED # A-27-70

MFK TRUCKS, INC Manufacto:

EPA Engine Family: VMKTZB ELDARA

Fuel Rute: (Ibs/hr)@max rated torque 102.8 82.5 mm/shoke@ mar rated torque Fuel Rate: 236. 4 261.6 197.7 Torque @ RPM (SEA Gross) 1083 B /200 12770,250 142501020 Manufacturer Family Name: FAMILY 44 Fuel Rate: (lbs/lur) @ rated (for diesels only) 1/2.1 133.9 120.3 Fixel Rate: mm/stroke @ rated (for diesel only) 2/3.9 184.2 177.4 200 @ 1950 3500 1800 300 6 1750 EMP@RPM (SAE Gross) Engine Mode £7-350 £7-300 EM7-300 Engine Code 99 State Codes 1/N

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